

ABSTRACT

Systems and methods for automated detection and removal of solar interference in real time from NEXRAD or other similar radar products. The radar site latitude and longitude and scan elevation time are extracted from the radar data and a position of the Sun is determined for the extracted latitude and longitude and scan time. A radial that has been contaminated with solar interference is determined and the solar interference is removed from that radial; The removal process does not impact the timeliness of critical products, and conservatively removes solar interference. In addition inaccuracies with NEXRAD clock time synchronization are accounted for to ensure accurate results.